

Panasonic

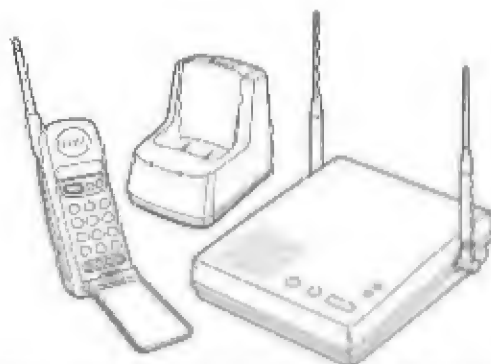
REFERENCE GUIDE

*Please read the IMPORTANT SAFETY INSTRUCTIONS on pages
20 through 23 before use.*

Read and understand all instructions.

**DIGITAL
SS**
SPREAD SPECTRUM

POWER
ANTENNA SYSTEM™



MODEL No.
KX-TD7890

Charge the battery for about 15 hours
before initial use.

THANK YOU FOR PURCHASING THE KX-TD7890.

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IMPORTANT SAFETY INSTRUCTIONS

Accessories

Handset		Base Unit		Charging Unit	
	One		One		One
AC Adaptor	Telephone Line Cord	Battery* (KX-A92)	Handset Cover	Cradle Cover	Wall-Mounting Adaptor
					
Two	One	Two	One	One	One

Note:

- To order accessories, call toll free 1-800-332-5368.
- Battery*: Please use only a Panasonic KX-A92 battery.

FOR BEST PERFORMANCE

900MHz Digital Spread Spectrum Technology

State-of-the art digital spread spectrum technology increases range longer than 900MHz conventional wireless phones.

Voice Scrambling

Digital spread spectrum technology deters eavesdropping, to protect your privacy.

Power Antenna System™

Two antennas on the base unit help assure you of consistent sound quality and reception.

Auto Channel Access

The unit constantly monitors the channel noise level and if noise interference occurs, automatically switches to a clearer channel.

Battery Charge

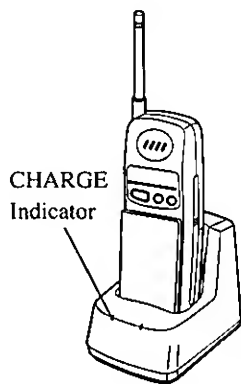
To power the handset, install the battery in the handset (P. 8) and place the handset on the charging unit for about

15 hours to charge before initial use.

- The **CHARGE** indicator lights.

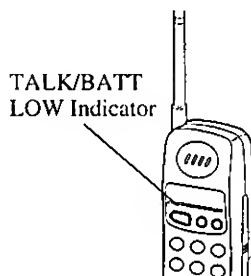
Note:

- Clean the handset and the charging unit charge contacts with a soft dry cloth once a month, or the battery may not be charged properly.
- Once the handset battery is fully charged, you do not have to place the handset on the charging unit until the **TALK/BATT LOW** indicator flashes.
- The battery cannot be overcharged.



▷ Recharge

Recharge the battery, when the **TALK/BATT LOW** indicator flashes or beep tones sound every minute during a conversation. You can recharge by placing the handset on the charging unit or installing a fully charged spare battery (P. 16).



Standard Battery Life

If your Panasonic battery KX-A92 is fully charged:

While the phone is in use (TALK).....Up to about 3 hours

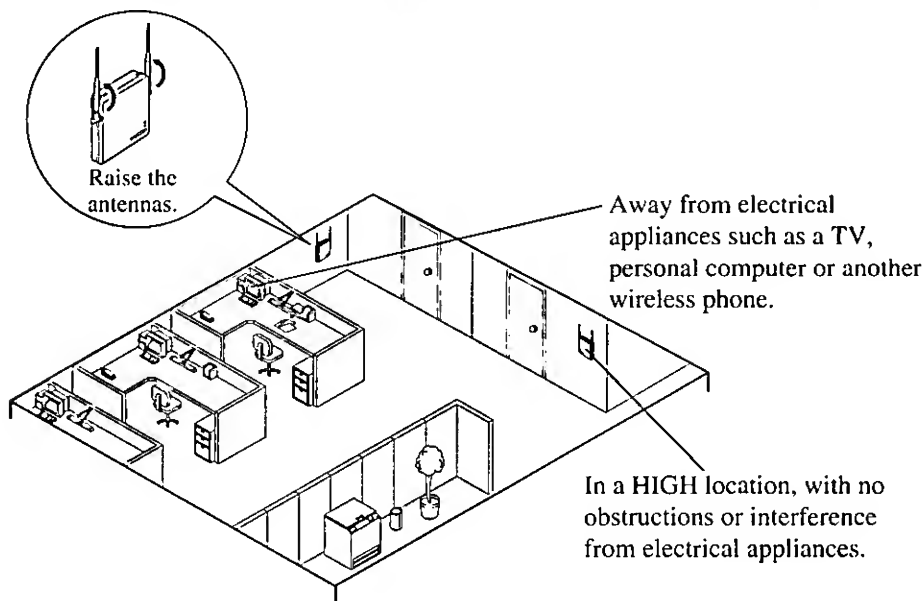
While the phone is not in use (Stand-by).....Up to about 10 days

Battery life may vary depending on usage conditions and ambient temperature.

FOR BEST PERFORMANCE

Best Location of the Base Unit

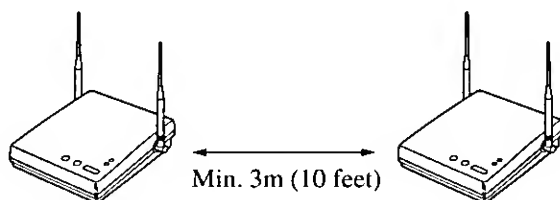
Calls are transmitted between the base unit and the handset using wireless radio waves. For maximum distance and noise free operation, the recommended base unit location is:



- Wireless telephones, except for an 900MHz telephone, can be used together.
- If you are out of range, an alarm tone will sound continuously during the conversation.

Operating Distance

When using more than two base units, place the base units at least 3 m (10 feet) away from each other, or else proper radio transmission cannot be obtained.

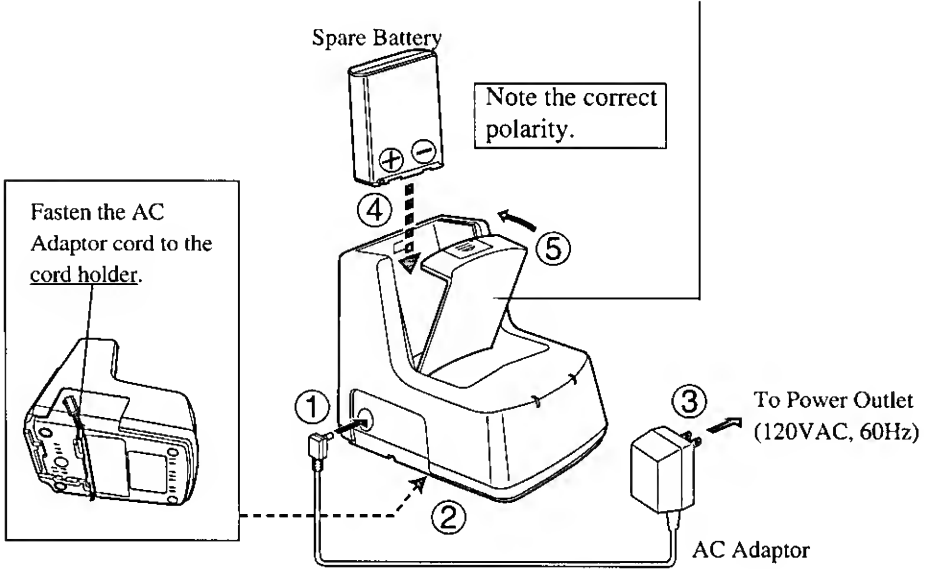


PREPARATION

Charging Unit

- 1. Connect as shown.**

- 2. Attach the cradle cover (included) and close it.**



THE WALL OUTLET POWER SOCKET SHOULD BE LOCATED NEAR THIS EQUIPMENT AND BE EASILY ACCESSIBLE.

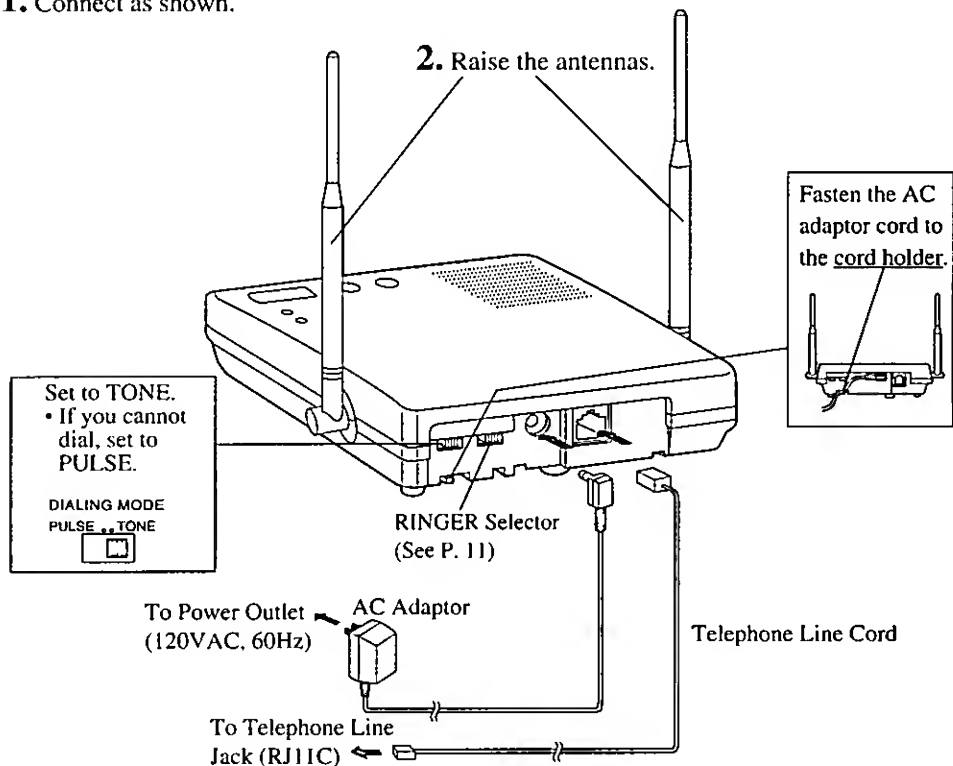
Note:

- **Spare Battery:** When the handset battery needs charging, replace it with a fully charged spare battery. This will eliminate waiting for the handset battery to fully recharge.
- While the spare battery is charging, the **SPARE CHARGE** indicator lights.
- **USE ONLY** Panasonic AC ADAPTOR KX-A11. The adaptor must remain connected at all times.
- The AC adaptor may feel warm during use. This is normal.
- The unit will not function during a power failure.

PREPARATION

(Base Unit)

1. Connect as shown.

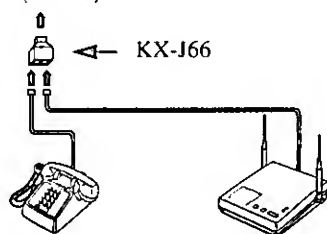


THE WALL OUTLET POWER SOCKET SHOULD BE LOCATED NEAR THIS EQUIPMENT AND BE EASILY ACCESSIBLE.

Note:

- USE ONLY Panasonic AC ADAPTOR KX-A11. The adaptor must remain connected at all times.
- The AC adaptor may feel warm during use. This is normal.
- The unit will not function during a power failure. We recommend you connect a reserve standard telephone on the same line as protection. The Panasonic T-adaptor, KX-J66, is required.

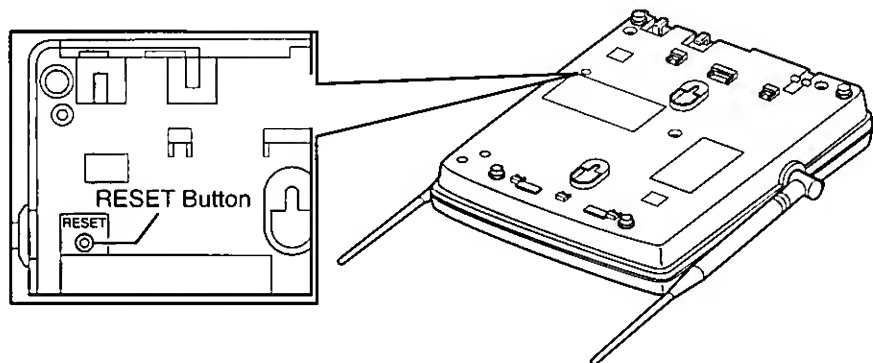
To Telephone Line Jack (RJ11C)



PREPARATION

About the RESET Button:

If the unit stops operating properly even after set it up correctly, press **RESET** on the bottom of the base unit with a pointed object, such as a pen, etc.

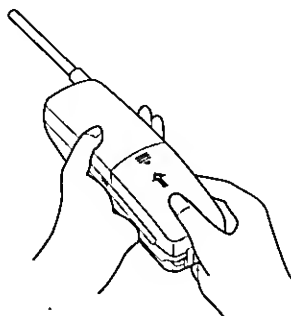
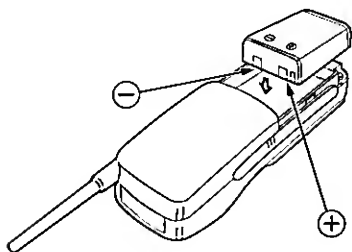


Pressing **RESET** does not erase any stored telephone numbers (p. 13).

PREPARATION

Handset

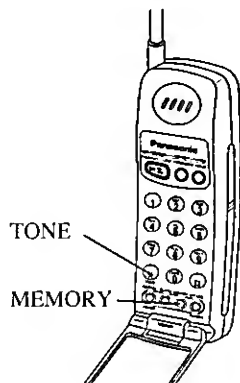
1. Install the battery (included) as shown observing the proper polarity.
2. Close the handset cover (included).



Selecting the Ringer Tone (4 types):

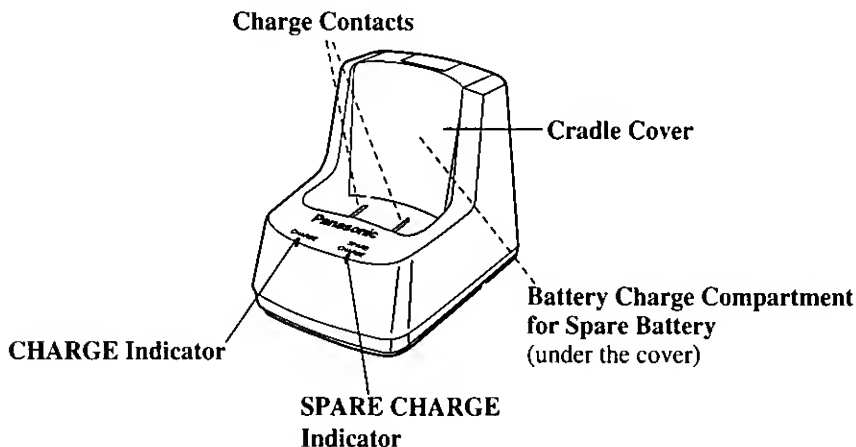
Be sure the **TALK/BATT LOW** indicator light is off. If the light is on, press **TALK** to turn it off.

1. Press **MEMORY**.
2. Press **TONE**.
3. Press a dialing button, 1 to 4.
 - The selected ringer tone sounds.
 - If three beeps sound, the ringer volume is set to **OFF**. Press **MEMORY** to end selecting, then set the ringer volume to **HIGH** or **LOW** (p. 11). Restart from step 1.
4. When finished, press **MEMORY**.

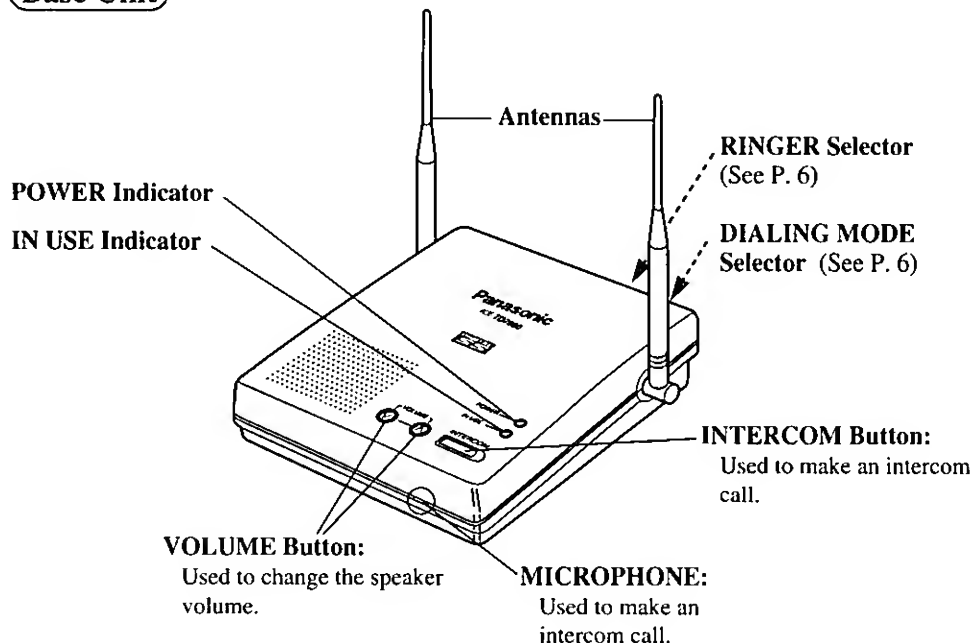


LOCATION OF CONTROLS

Charging Unit

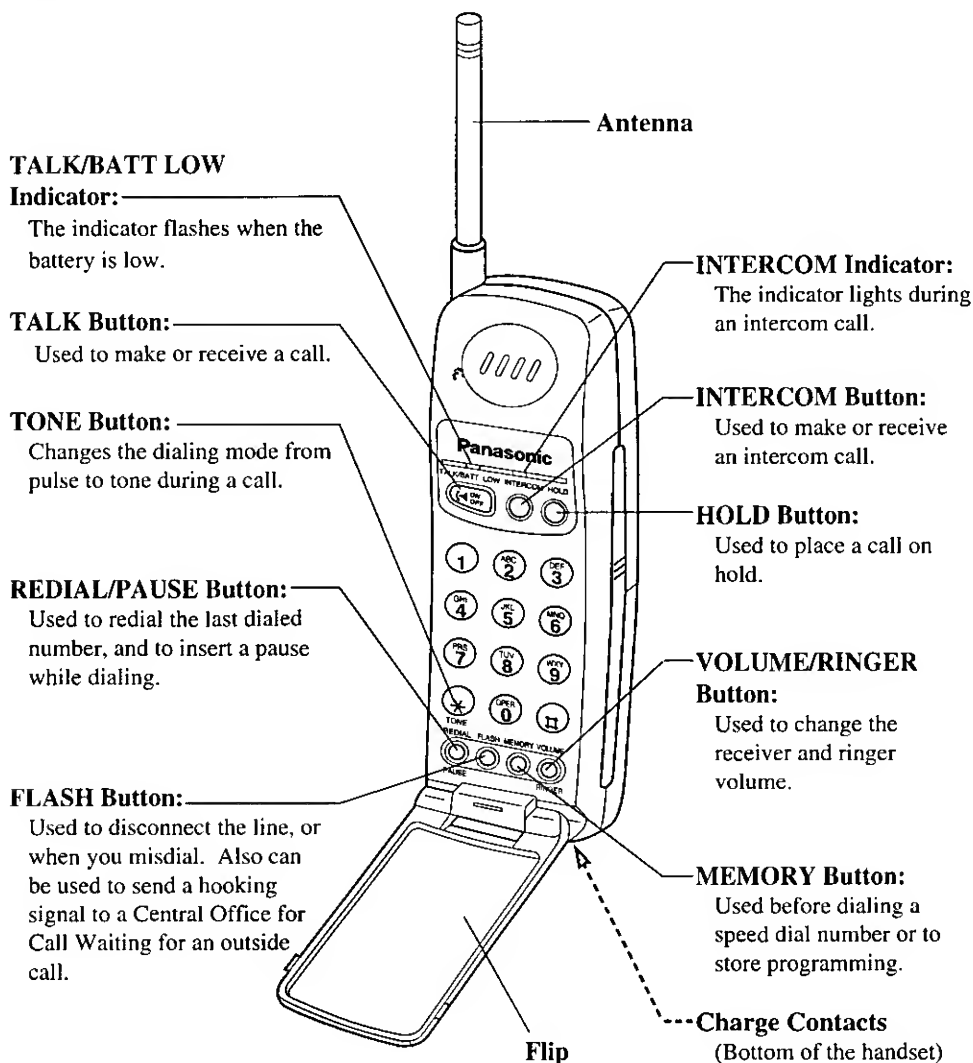


Base Unit



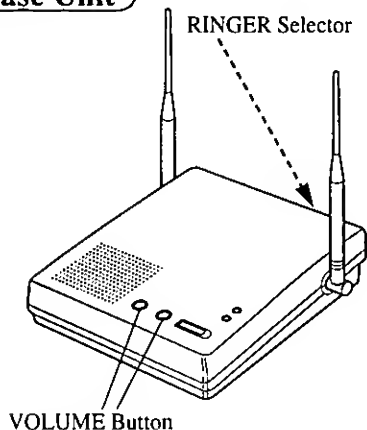
LOCATION OF CONTROLS

Handset



VOLUME CONTROL

Base Unit



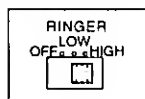
▷ To adjust the speaker volume (8 levels)

1. To increase, press the **VOLUME** \wedge button. To decrease, press \vee .

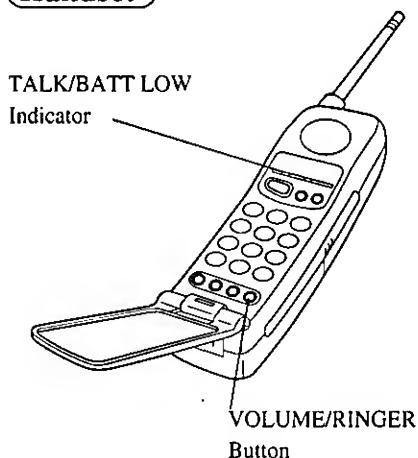
▷ To Select the ringer volume

1. Set the **RINGER Selector** to **HIGH**, **LOW** or **OFF**.

- When set to **HIGH** or **LOW**, a bell will sound at the selected volume.
- When set to **OFF**, two beeps will sound and the base unit will not ring.



Handset



▷ To select the receiver volume to **HIGH** or **LOW** (default)

1. Press **VOLUME/RINGER** while speaking.

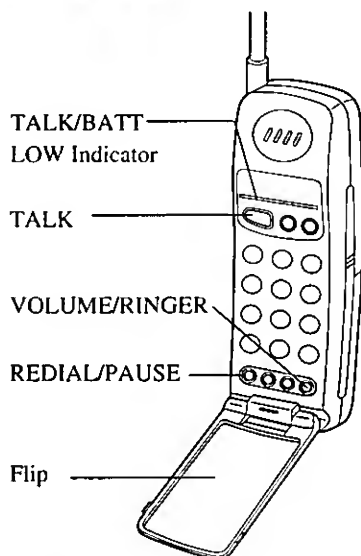
- Each time you press, the volume will change.

▷ To Adjust the ringer volume

Be sure the **TALK/BATT LOW** indicator light is off. If the light is on, press **TALK** to turn it off.

- **To select **HIGH** (default) or **LOW**:** press **VOLUME/RINGER** lightly. (Each time you press, a bell will sound and the ringer volume will change accordingly.)
- **To turn the ringer OFF:** press and hold **VOLUME/RINGER** until a bell sounds followed by 2 beeps.
- **To turn the ringer ON:** press **VOLUME/RINGER** lightly. The ringer sounds at the **HIGH** level.

BASIC OPERATION WITH THE HANDSET



Making Calls

1. Open the flip.

- The **TALK/BATT LOW** indicator lights.
- If the indicator does not light, press **TALK**.
- If an alarm tone sounds, move toward the base unit. Then try again.

2. Dial a telephone number.

3. To hang up, close the flip or press **TALK**.

- The indicator light goes out.

Receiving Calls

1. Open the flip or Press **TALK**.

2. To hang up, close the flip or press **TALK**.

- The indicator light goes out.

Note:

- Calls cannot be ended by placing the handset on the charging unit.

Lighted keypad:

The dialing buttons will light while dialing and flash when a call is received. The light will go out about 10 seconds after dialing or answering a call.

Call Hold

▷ Setting

1. Press **HOLD** during a conversation.

- The **TALK/BATT LOW** indicator flashes.
- When holding a call with the flip opened, the call will remain on hold even if you close the flip.
- If you put a call on hold for 6 minutes, warning tones will sound. The call will be disconnected after a total of 10 minutes.

▷ Retrieving

1. Open the flip or Press **TALK**.

- If another phone is connected on the same line, you can also release the hold by lifting its handset.

Last Number Redial

1. Open the flip. (Follow step 1 of Making Calls on this page.)

2. Press **REDIAL/PAUSE**.

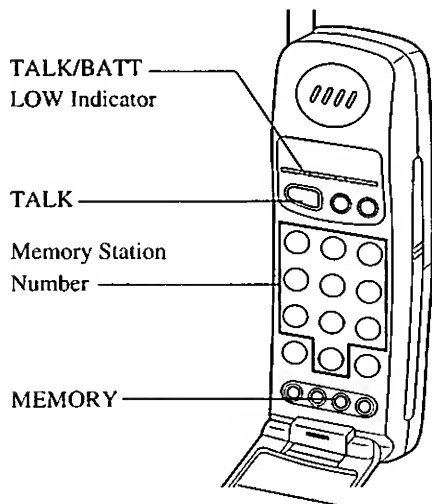
ADVANCED OPERATION WITH THE HANDSET

Automatic Dialing

Before storing phone numbers in memory or erasing a stored number, be sure the **TALK/BATT LOW** indicator light is off. If the light is on, press **TALK** to turn it off.

▶ Storing Phone Numbers in Memory

You can store up to 10 phone numbers in the handset. The dialing buttons (0 to 9) function as memory stations.



1. Press **MEMORY**.

- The **TALK/BATT LOW** indicator flashes.

2. Press a memory station number (0 to 9).

- A long beep sounds.

3. Enter a phone number up to 20 digits.

- If you misdial, press **TALK** twice to end storing, then restart from step 1.

4. When finished, press **MEMORY**.

- A confirmation tone sounds.
1 beep : The new number is stored.
2 beeps : The number is the same as a previously stored one.
- To store other numbers, repeat steps 1 through 4.

▶ Erasing a stored number

1. Press **MEMORY**.

2. Press the memory station number (0 to 9) to be erased.

3. Press **MEMORY**.

Memory Stickers:

You may use the included memory stickers as a name or phone number index for automatic dialing. Write down the desired names or numbers, then attach the sticker to the handset or in a convenient place.

10-STATION AUTOMATIC DIALER	
1	6
2	7
3	8
4	9
5	0
TEL NO.	

ADVANCED OPERATION WITH THE HANDSET

▷ Dialing a stored number

1. Open the flip.

- If the **TALK/BATT LOW** indicator does not light, press **TALK**.

2. Press **MEMORY**.

3. Press the memory station number (0 to 9).

- The stored number is dialed.

Temporary TONE Dialing (For Rotary Service Users)

Press **TONE** before entering access numbers which require tone dialing.

- The dialing mode changes to tone. You can enter numbers to access answering systems, electronic banking services, etc. When you hang up, the mode returns to pulse.

Security Code Setting

One of a million security codes is set on your unit at the factory. This code helps avoid unauthorized use of your telephone line by another wireless telephone.

For Call Waiting Service Users

Press **FLASH** lightly if you hear a call-waiting tone while talking.

- The first call is put on hold and you can answer the second call.
- To return to the first caller, press **FLASH** again.

If Your Unit is Connected to a PBX

We recommend you press **REDIAL/PAUSE** between the access number for an outside line and the phone number.

You cannot operate call transfer feature by pressing **HOLD**.

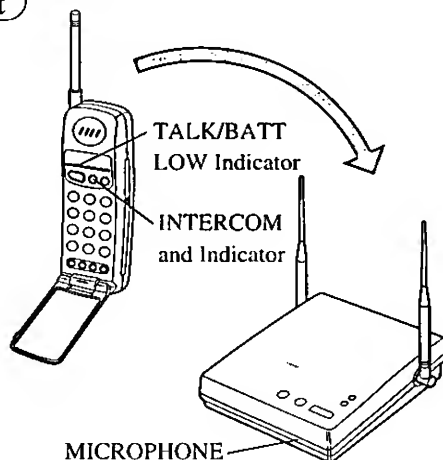
- Pressing **REDIAL/PAUSE** once creates a 3.5 second pause. This prevents misdialing when you redial or dial a stored number.
(**REDIAL/PAUSE** counts as one digit.)

INTERCOM CALLS

A 2-way intercom is available between the handset and the base unit.

From the Handset to the Base Unit

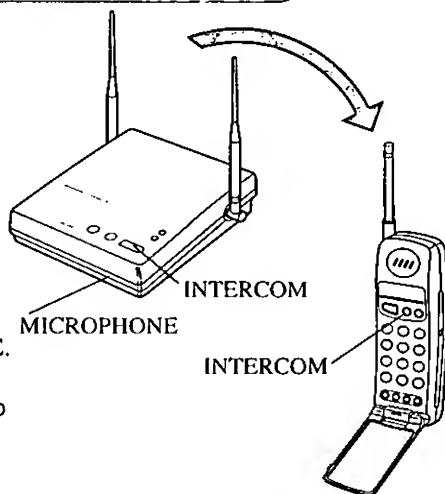
1. Handset : Open the flip.
 - The **TALK/BATT LOW** indicator lights.
2. Handset : Press **INTERCOM** and speak .
 - The **INTERCOM** indicator lights.
 - The **TALK/BATT LOW** indicator light goes out.
3. Base Unit : When the other party's voice is heard, answer through the **MICROPHONE**.
4. Handset : To end the intercom, close the flip or press **INTERCOM**.



From the Base Unit to the Handset (Handset locator)

Using this feature, you can locate the handset if misplaced.

1. Base Unit : Press **INTERCOM**.
 - The handset beeps for 1 minute.
 - To stop paging, press **INTERCOM** again.
2. Handset : Open the flip or press **INTERCOM** to answer.
3. Base Unit : Speak into the **MICROPHONE**.
4. Handset : To end the intercom, close the flip or press **INTERCOM**.



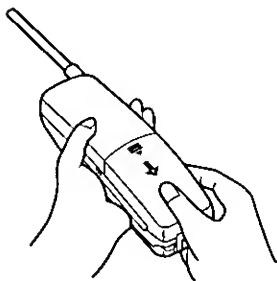
During the intercom:

- Intercom calls can only be ended by the handset.
 - If the handset user has difficulty hearing the base unit user, decrease the base unit speaker volume by pressing \surd . Reducing the speaker volume of the base unit will increase the microphone sensitivity.
 - If two tones sound, an incoming call has been received. To answer, press **TALK**. The intercom is ended.
- (The tones will not sound when the ringer volume is set to **OFF**.)

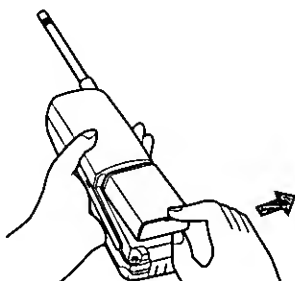
REPLACING THE BATTERY

When the handset battery needs charging, replace it with the fully charged spare battery. This will eliminate waiting for the handset battery to fully recharge.

- 1.** Remove the handset cover.

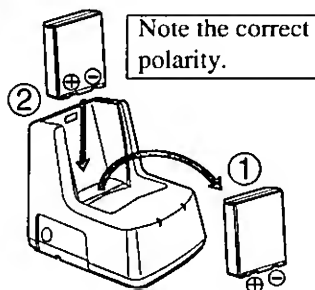


- 2.** Remove the handset battery.

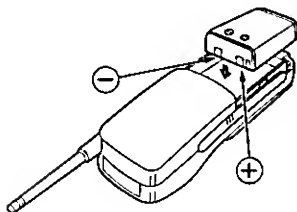


- 3.** Replace the handset battery with the spare battery in the charging unit.

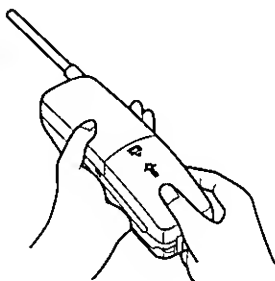
- ① Remove the spare battery.
② Insert the handset battery in the charging unit observing the proper polarity.



- 4.** Install the spare battery in the handset observing the proper polarity.



- 5.** Close the handset cover.



Note:

- If the **TALK/BATT. LOW** indicator flashes even when the handset battery has been fully charged, it is time to change the battery with a new one. Remember to fully charge the new battery before use.
- The spare battery is always being charged in the charging unit while the AC adaptor is connected. The battery cannot be overcharged.
- Please use only a KX-A92 battery.

Attention:

The product that you have purchased is powered by a nickel cadmium battery which is recyclable. At the end of its useful life, under various state and local laws, it is illegal to dispose of this battery into your municipal waste stream. Please call 1-800-8-BATTERY for information on how to recycle this battery.



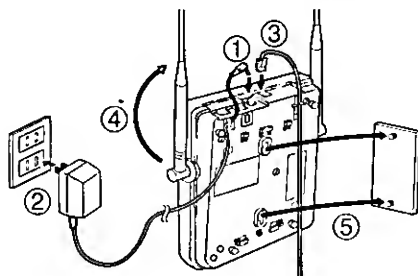
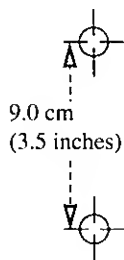
WALL MOUNTING

The base unit and charging unit can be mounted on a wall.

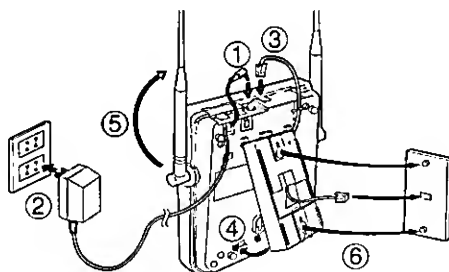
Wall Mounting the Base Unit

1. Drill two holes spaced 9.0 cm (3.5 inches) apart and install two screws.
2. Connect the AC adaptor, then the telephone cord. Attach the wall-mounting adaptor (included) if necessary and raise the antennas. Then mount the unit and slide down. (Follow steps as shown below.)

<Mount according to wall plate>

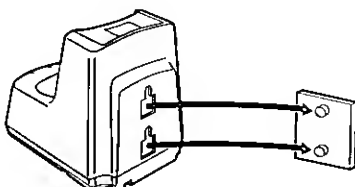
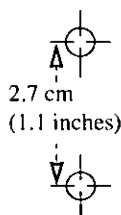


OR



Wall Mounting the Charging Unit

1. Drill two holes spaced 2.7 cm (1.1 inches) apart and install two screws.
2. Mount the unit and slide down.



TROUBLESHOOTING

Problem	Remedy
An alarm tone sounds when you open the flip, press TALK or press INTERCOM .	<ul style="list-style-type: none"> • You are too far from the base unit. Move closer and try again. • Plug in the base unit AC adaptor.
An alarm tone sounds continuously while using the handset.	<ul style="list-style-type: none"> • Move closer to the base unit quickly, or the call will be terminated within 60 seconds. • Plug in the base unit AC adaptor.
The unit does not work.	<ul style="list-style-type: none"> • Check the settings (p. 5-8). • Charge the battery fully. • Clean the charge contacts and charge again.
Static, sound cuts in/out, fades. Interference from other electrical units.	<ul style="list-style-type: none"> • Set the handset and the base unit away from other electrical appliances. • Move closer to the base unit. • Raise the base unit antennas.
The unit stops working during operation.	<ul style="list-style-type: none"> • Press RESET on the bottom of the unit with a pointed object, such as a pen, etc. (P. 7) • Unplug the base unit AC adaptor. Plug in, then try again. • Re-insert the handset battery and try again.
The handset does not ring.	<ul style="list-style-type: none"> • The ringer volume is set to OFF. Press VOLUME/RINGER lightly when the TALK/BATT LOW indicator light is off. • After plugging in the base unit AC adaptor, the handset will not ring for 10 seconds.
The base unit does not ring.	<ul style="list-style-type: none"> • The RINGER selector is set to OFF. Set to HIGH or LOW.
While selecting a ringer tone or storing a phone number, the unit starts to ring.	<ul style="list-style-type: none"> • To answer the call, press TALK. The programming will be canceled. Try again.

TROUBLESHOOTING

Problem

Remedy

You cannot store a phone number in memory.

You cannot select a ringer tone.

- You cannot store a number or select a tone while the unit is in the talk or intercom mode.
- Do not pause for over 30 seconds while programming.

INTERCOM does not function.

- The handset is too far from the base unit or is engaged in an outside call.
- After plugging in the base unit AC adaptor, **INTERCOM** will not function for about 10 seconds.

REDIAL/PAUSE does not function properly.

- The button has a double function. It will redial the last dialed number if pressed at the outset of a call (p. 12). If another number has been dialed first, it will operate as a pause button (p. 14).

The unit beeps every minute during a conversation or the **TALK/BATT LOW** indicator flashes intermittently.

- Charge the battery fully or replace with a fully charged spare battery (p. 3, 16).

You charged the battery about 15 hours, but the **TALK/BATT LOW** indicator flashes intermittently.

- Clean the charge contacts and charge again.
- It is time to change the battery. Please purchase a new battery (p. 16).

The **CHARGE** indicator and/or the **SPARE CHARGE** indicator light never go(es) out while charging.

- This is normal.

If you cannot solve your problem.

- Call our customer satisfaction center at 201-348-9090.

IMPORTANT SAFETY INSTRUCTIONS

When using this unit, basic safety precautions should always be followed to reduce the risk of fire, electric shock, or personal injury.

1. Read and understand all instructions.
2. Follow all warnings and instructions marked on this unit.
3. Unplug this unit from AC outlets before cleaning. Do not use liquid or aerosol cleaners. Use a damp cloth for cleaning.
4. Do not use this unit near water, for example, near a bathtub, washbowl, kitchen sink, or the like.
5. Place this unit securely on a stable surface. Serious damage and/or injury may result if the unit falls.
6. Do not cover slots and openings on the unit. They are provided for ventilation and protection against overheating. Never place the unit near radiators, or in a place where proper ventilation is not provided.
7. Use only the power source marked on the unit. If you are not sure of the type of power supplied to your home, consult your dealer or local power company.
8. Do not place objects on the power cord. Install the unit where no one can step or trip on the cord.
9. Do not overload wall outlets and extension cords. This can result in the risk of fire or electric shock.
10. Never push any objects through slots in this unit. This may result in the risk of fire or electric shock. Never spill any liquid on the unit.
11. To reduce the risk of electric shock, do not disassemble this unit. Take the unit to an authorized servicenter when service is required. Opening or removing covers may expose you to dangerous voltages or other risks. Incorrect reassembly can cause electric shock when the unit is subsequently used.
12. Unplug this unit from the wall outlet and refer servicing to an authorized servicenter when the following conditions occur:
 - A. When the power supply cord or plug is damaged or frayed.
 - B. If liquid has been spilled into the unit.
 - C. If the unit has been exposed to rain or water.
 - D. If the unit does not work normally by following the operating instructions. Adjust only controls covered by the operating instructions. Improper adjustment may require extensive work by an authorized servicenter.
 - E. If the unit has been dropped or physically damaged.
 - F. If the unit exhibits a distinct change in performance.
13. During thunderstorms, avoid using telephones except cordless types. There may be a remote risk of an electric shock from lightning.
14. Do not use this unit to report a gas leak, when in the vicinity of the leak.

SAVE THESE INSTRUCTIONS

IMPORTANT SAFETY INSTRUCTIONS

CAUTION:

To reduce the risk of fire or injury to persons, read and follow these instructions.

1. Use only the battery(ies) specified.
2. Do not dispose of the battery(ies) in a fire. They may explode. Check with local waste management codes for special disposal instructions.
3. Do not open or mutilate the battery(ies). Released electrolyte is corrosive and may cause burns or injury to the eyes or skin. The electrolyte may be toxic if swallowed.
4. Exercise care in handling batteries in order not to short the battery to conductive materials such as rings, bracelets, and keys. The battery and/or conductor may overheat and cause burns.
5. Charge the battery(ies) provided with or identified for use with this product only in accordance with the instructions and limitations specified in this manual.

WARNING:

TO PREVENT FIRE OR SHOCK
HAZARD, DO NOT EXPOSE THIS
PRODUCT TO RAIN OR ANY TYPE OF
MOISTURE.

FCC Information

If requested by the telephone company, inform them as follows:

- FCC Registration No:
(found on the bottom of the unit)
- Ringer Equivalence: 0.2B
- The particular telephone line to which the equipment is connected.

This unit must not be connected to a coin operated line.

If you are on a party line, check with your local telephone company.

Ringer Equivalence No. (REN):

The REN is useful in determining the quantity of devices you may connect to your telephone line and still have all of those devices ring when your telephone number is called. In most, but not all areas, the sum of the REN's of all devices connected to one line should not exceed five (5.0). To be certain of the number of devices you may connect to your line, as determined by the REN, you should contact your local telephone company to determine the maximum REN for your calling area.

In the event terminal equipment causes harm to the telephone network, the telephone company should notify the customer, if possible, that service may be stopped.

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However, where prior notice is impractical, the company may temporarily cease service providing that they:

- (a) Promptly notify the customer.
- (b) Give the customer an opportunity to correct the problem with their equipment.
- (c) Inform the customer of the right to bring a complaint to the Federal Communication Commission pursuant to procedures set out in FCC Rules and Regulations Subpart E of Part 68.

The Telephone Company may make changes in its communications facilities, equipment, operations or procedures, where such action is reasonably required in the operation of its business and is not inconsistent with the rules and regulations in FCC Part 68.

If such changes can be reasonably expected to render any customer terminal equipment incompatible with telephone company communications facilities, or require modification or alteration of such terminal equipment, or otherwise materially affect its use or performance, the customer shall be given adequate notice in writing, to allow the customer an opportunity to maintain uninterrupted service.

When programming emergency numbers and/or making test calls to emergency numbers:

1. Remain on the line and briefly explain to the dispatcher the reason for the call before hanging up.
2. Perform such activities in the off-peak hours, such as early morning hours or late evenings.

CAUTION:

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this device.

Note:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to

IMPORTANT SAFETY INSTRUCTIONS

correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Some cordless telephones operate at frequencies that may cause interference to nearby TVs and VCRs. To minimize or prevent such interference, the base of the cordless telephone should not be placed near or on top of a TV or VCR. If interference is experienced, move the cordless telephone further away from the TV or VCR. This will often reduce or eliminate interference.

• **Environment** — do not place the unit in rooms where the temperature is less than 5°C (41°F) or greater than 40°C (104°F). Allow 10 cm (4") clearance around the unit for proper ventilation. Avoid excessive smoke, dust, mechanical vibration, shock, or direct sunlight. Keep away magnetic cards, such as bank cards, telephone cards, etc. from the handset, as the magnet in the handset may cause the data on the card's magnetic strip to be erased.

Consult the manufacturer of any personal medical devices, such as pacemakers, to determine if they are adequately shielded from external RF energy. (The unit operates in the frequency range of 906.0MHz to 924.6MHz and the power level can range from 0.001 watts to 0.1 watts.)

Do not use the unit in health care facilities when any regulations posted in the area instruct you to do so. Hospitals or health care facilities may be using equipment that could be sensitive to external RF energy.

• **Routine care** — wipe the unit with a soft cloth. Do not use benzine, thinner, or any abrasive powder.

When you left the unit unused for long time, unplug the AC adaptor from the outlet.

• **If there is any trouble** — disconnect the unit from the telephone line and connect a known working phone. If the known working phone operates properly, have your unit repaired by one of the authorized Panasonic Factory Service Centers. If the known working phone does not operate properly, consult with your telephone company.

Hearing Aid Compatibility

This telephone provides magnetic coupling for hearing aids.

Privacy of communications may not be ensured when using this phone.

For product service

- Panasonic Servicenters are listed in the servicenter directory.
- Call 1-800-545-2672 for the location of an authorized servicenter.

When you ship the product

- Carefully pack your unit, preferably in the original carton.
- Attach a letter, detailing the symptom, to the outside of the carton.

Symptom _____

- Send the unit to an authorized servicenter, prepaid and adequately insured.
- Do not send your unit to the Panasonic Consumer Electronics Company listed below or to executive or regional sales offices. These locations do not repair consumer products.

For your future reference

SERIAL NO. _____ DATE OF PURCHASE _____
(found on the bottom of the unit)

NAME OF DEALER _____

DEALER'S ADDRESS _____

**Panasonic Consumer Electronics Company,
Division of Matsushita Electric Corporation of America**
One Panasonic Way, Secaucus, New Jersey 07094

**Panasonic Sales Company ("PSC"),
Division of Matsushita Electric of Puerto Rico, Inc.**
Ave. 65 de Infantería, Km. 9.5, San Gabriel Industrial Park
Carolina, Puerto Rico 00985